



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 0807193
File reference No: 2008-11-25

Applicant: WIN ACCORD LTD.

Product: Digital Photo Frame

Brand Name: N/A

Model No: SPX7E

Test Standards: FCC Part 15 Subpart B: 2006

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: Nov 25. 2008

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: WIN ACCORD LTD.
Address: 12F,NO.225,SEC 5,105 SONG SHAN DIST.,NAN JING EAST ROAD,TAIPEI,TAIWAN,R.O.C
Telephone: 02-2749 3837
Fax: 02-2749-3918

1.3 Description of EUT

Product: Digital Photo Frame
Manufacturer: WIN ACCORD LTD.
Address: Shatou Section. Zhen'an Road, Chang'an, Town, Dongguan City
Brand Name: N/A
Model Number: SPX7E
Additional Model N/A
Number:
Remark: Just model names and appearance colour are different.
Rating: Input: DC 9V, Current 2A

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2008-09-26 to 2008-11-25

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

A handwritten signature in black ink that reads 'Terry Tang'.

Print Name: Terry Tang

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2008.2.24	1Year
LISN	NTFM8134	8134109	SCHWARZBECK	2008.2.24	1Year
LISN	NTFM8136	8136102	SCHWARZBECK	2008.2.24	1Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2008.2.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with Tracking Generator)	MS2661C	MT72089	ANRITSU	2008.2.23	1Year
Amplifier	MH648A	M20494	ANRITSU	2008.2.24	1Year
Bilog Antenna	CBL6101C	2576	CHASE	2008.2.23	1Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
Keyboard	KB-0225	1211815	IBM	Data cable of 2m length unshielded	FCC DOC
Printer	BOISB-027-00	CNFG029476	EPSON	Data cable of 2m length unshielded and 1.8m length AC Mains cable	DOC
Monitor	6331-4CN	23-DNWX3	IBM	Data cable of 1.5m length unshielded and 1.8m length AC Mains cable	FCC ID

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PC	8434	--	IBM	1.8m length AC Mains cable	FCC DOC
Mouse	OM860XC	HM0509	BIGCOW	Data cable of 1.5m length	FCC DOC

3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

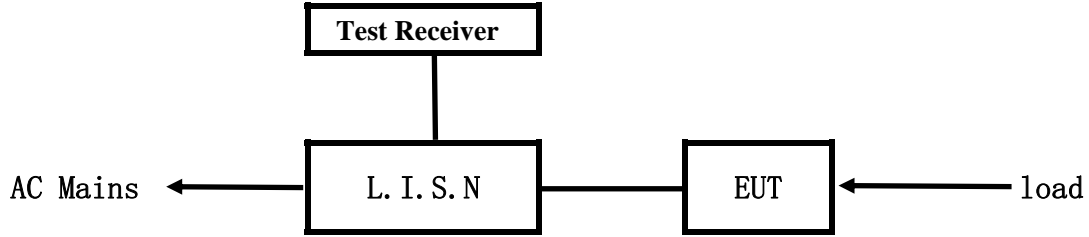
FCC Part 15 Subpart B: 2006

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4.0 Conducted Power line Test

4.1 Schematics of the test

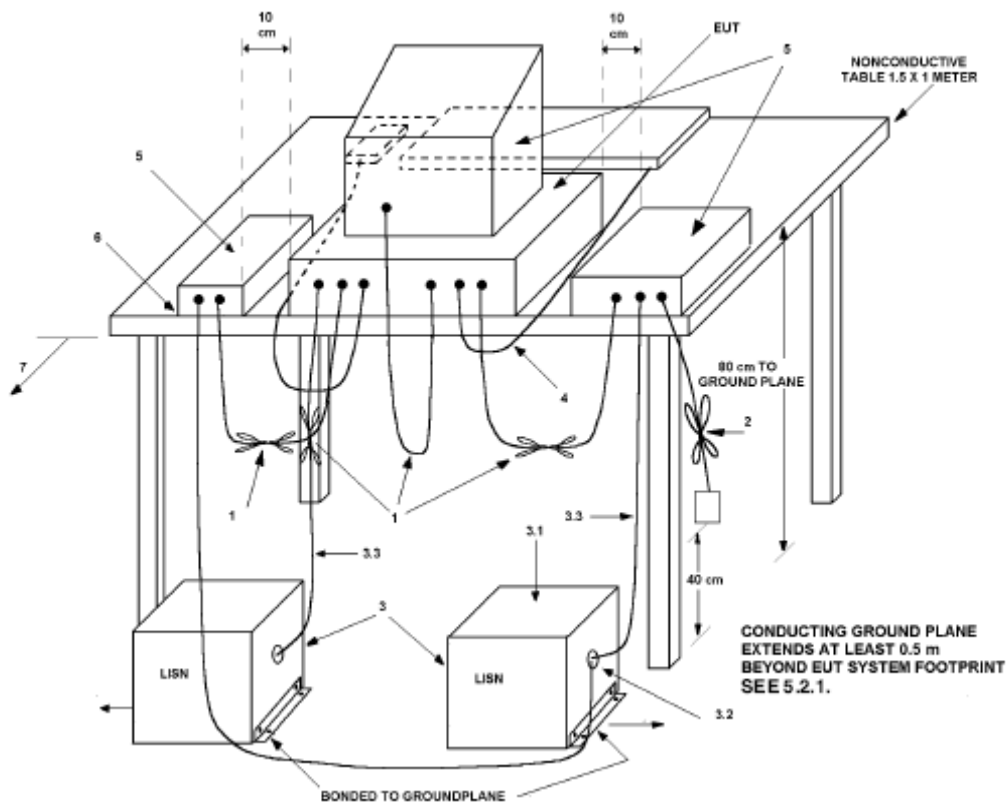


EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μ V)		Class B Limits dB(μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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TEST REPORT

Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing SD Card

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

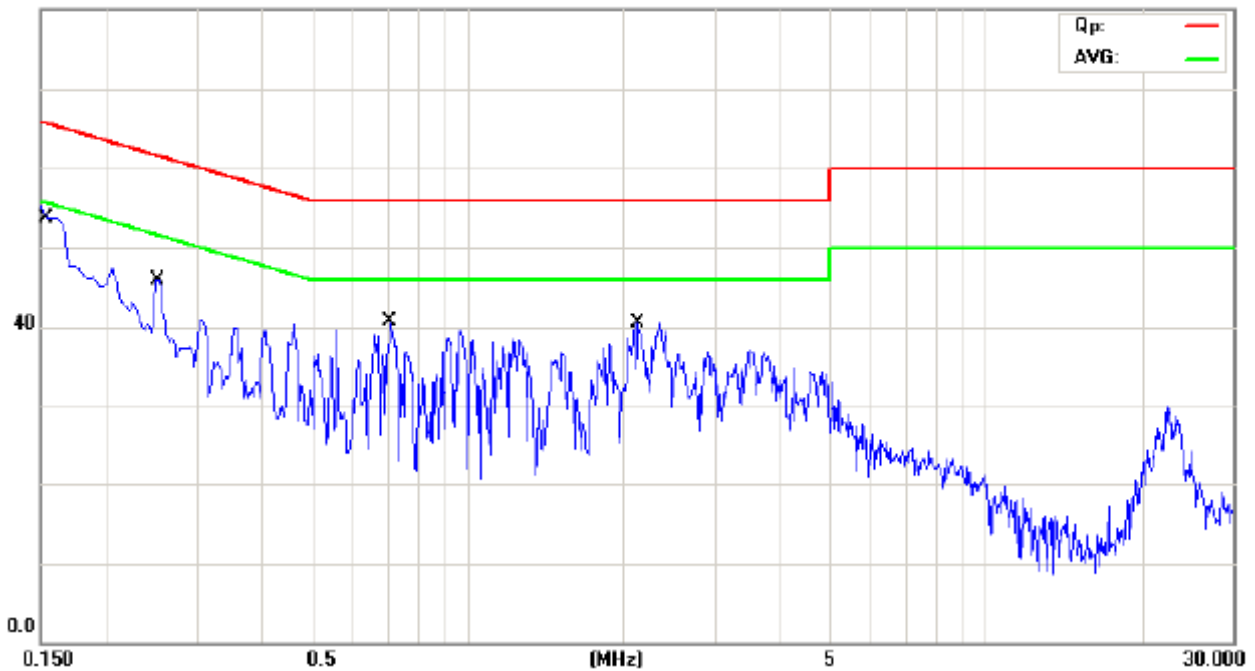
Conducted Emission Measurement

File :SPX7E
 90.0 dB μ V

Data :#3

Date: 2008/11/25

Time: 17:05:45



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1551	--	--	50.11	36.41	65.72	55.72
0.2516	--	--	41.51	26.41	61.70	51.70
0.7121	--	--	36.20	21.90	56.00	46.00
2.1333	--	--	34.85	21.95	56.00	46.00

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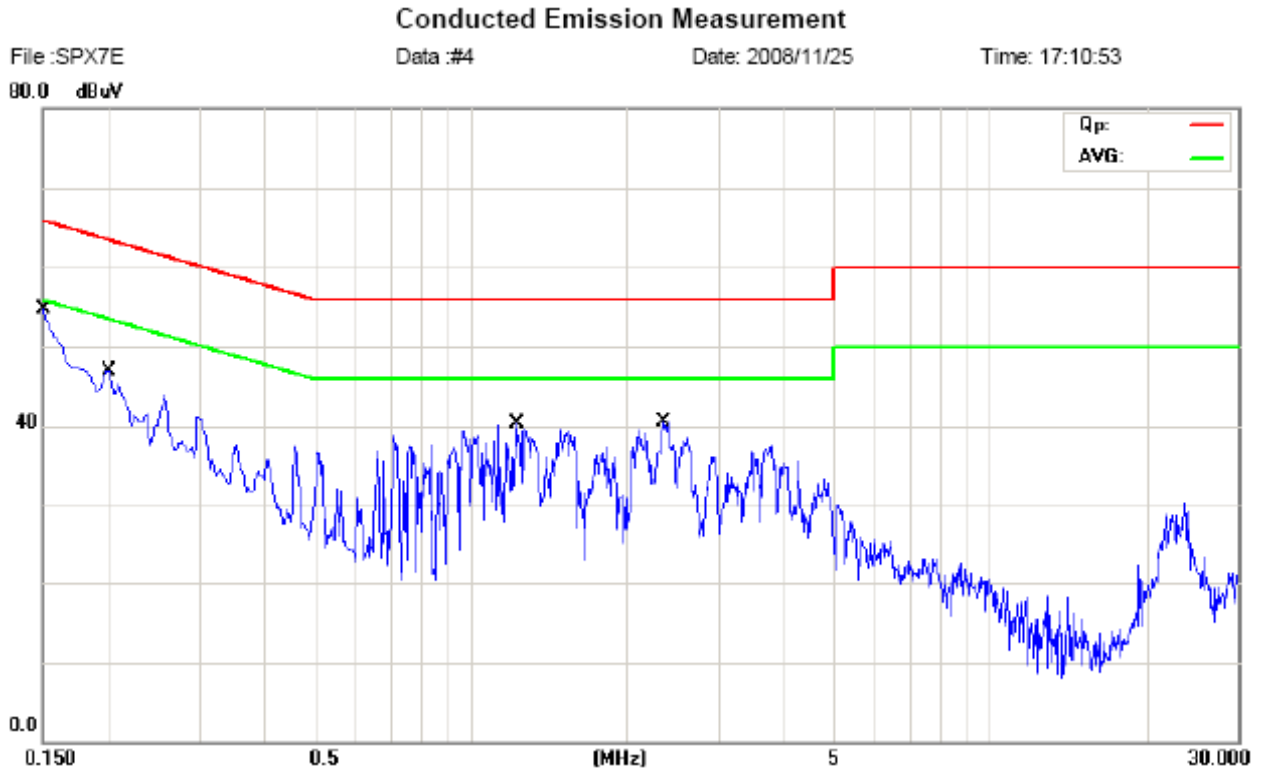
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing SD Card
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1508	49.10	31.40	--	--	65.96	55.96
0.1986	40.55	32.35	--	--	63.67	53.67
1.2257	36.69	29.19	--	--	56.00	46.00
2.3580	34.44	27.44	--	--	56.00	46.00

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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing USB

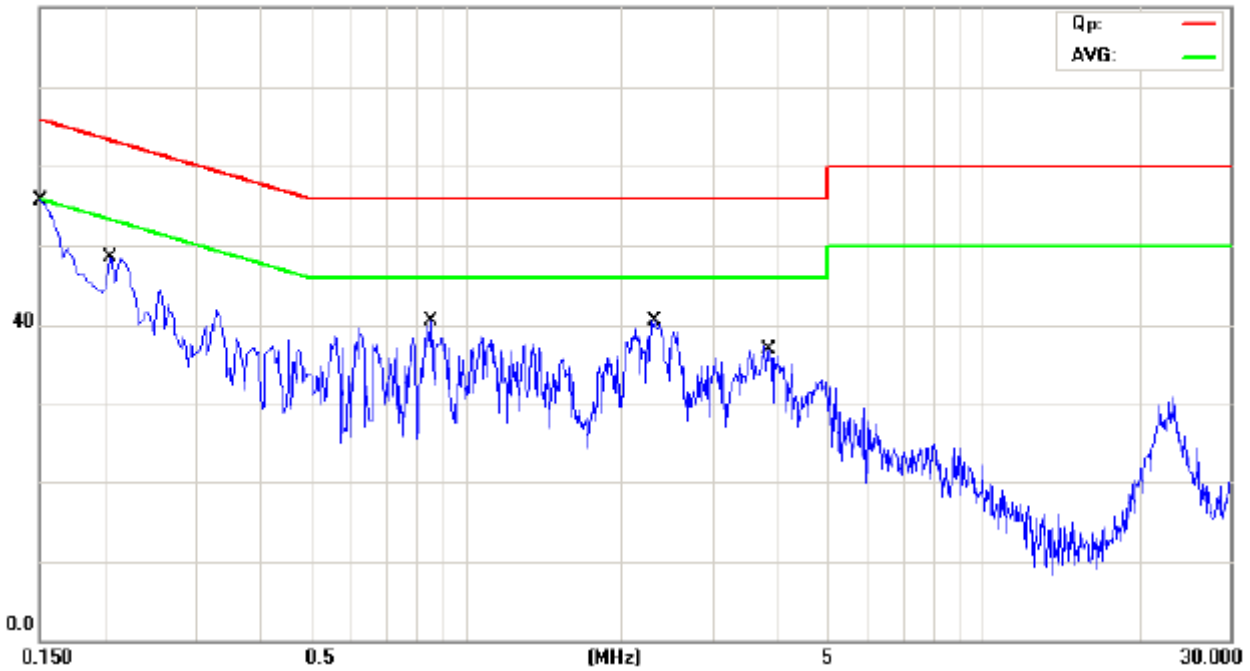
Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

Conducted Emission Measurement

File :SPX7E Data :#2 Date: 2008/11/25 Time: 16:57:33
 90.0 dB μ V



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1517	--	--	47.00	28.80	65.91	55.91
0.2052	--	--	41.76	25.46	63.40	53.40
0.8473	--	--	34.04	22.44	56.00	46.00
2.3336	--	--	34.83	26.83	56.00	46.00
3.8642	--	--	27.75	15.45	56.00	46.00

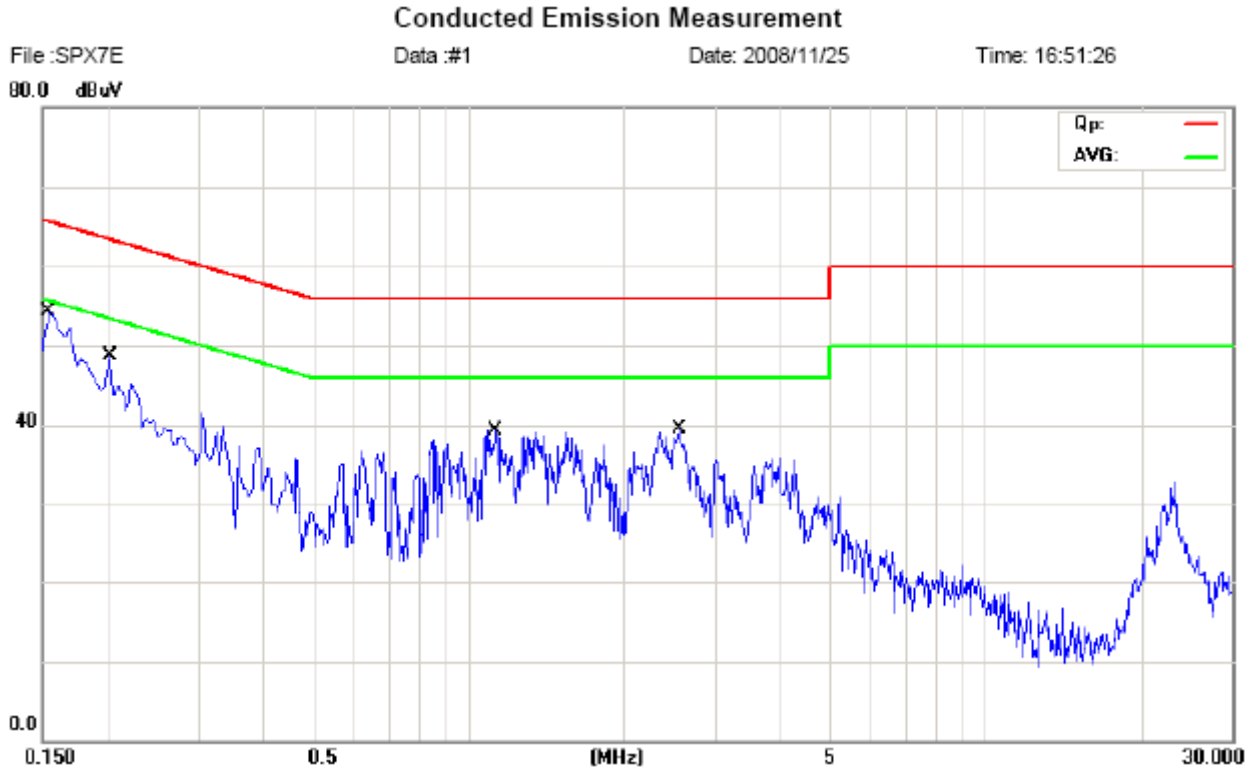
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Playing USB
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1537	47.60	46.80	--	--	65.80	55.80
0.1991	43.75	31.25	--	--	63.65	53.65
1.3121	33.25	32.55	--	--	56.00	46.00
2.5507	33.22	27.22	--	--	56.00	46.00

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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read CF Card

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

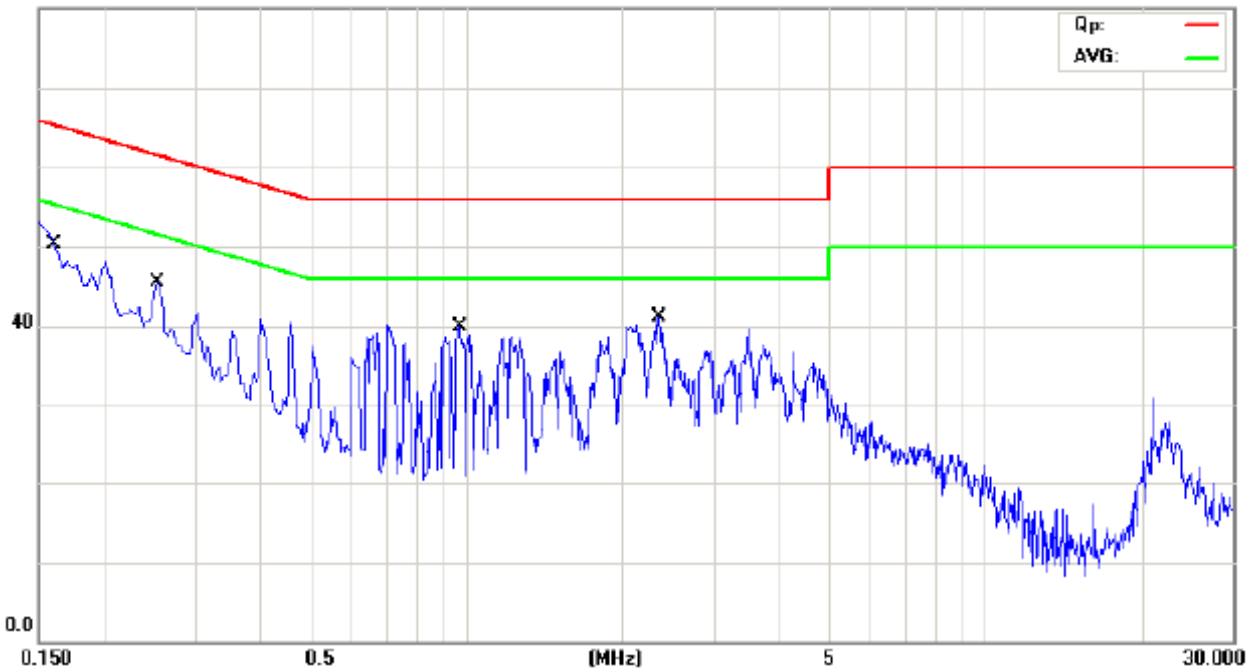
Conducted Emission Measurement

File :SPX7E
 80.0 dB μ V

Data :#6

Date: 2008/11/25

Time: 17:23:19



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1623	--	--	43.81	36.71	65.35	55.35
0.2534			41.61	35.91	61.64	51.64
0.9601			35.46	33.96	56.00	46.00
2.3390	--	--	34.64	31.94	56.00	46.00

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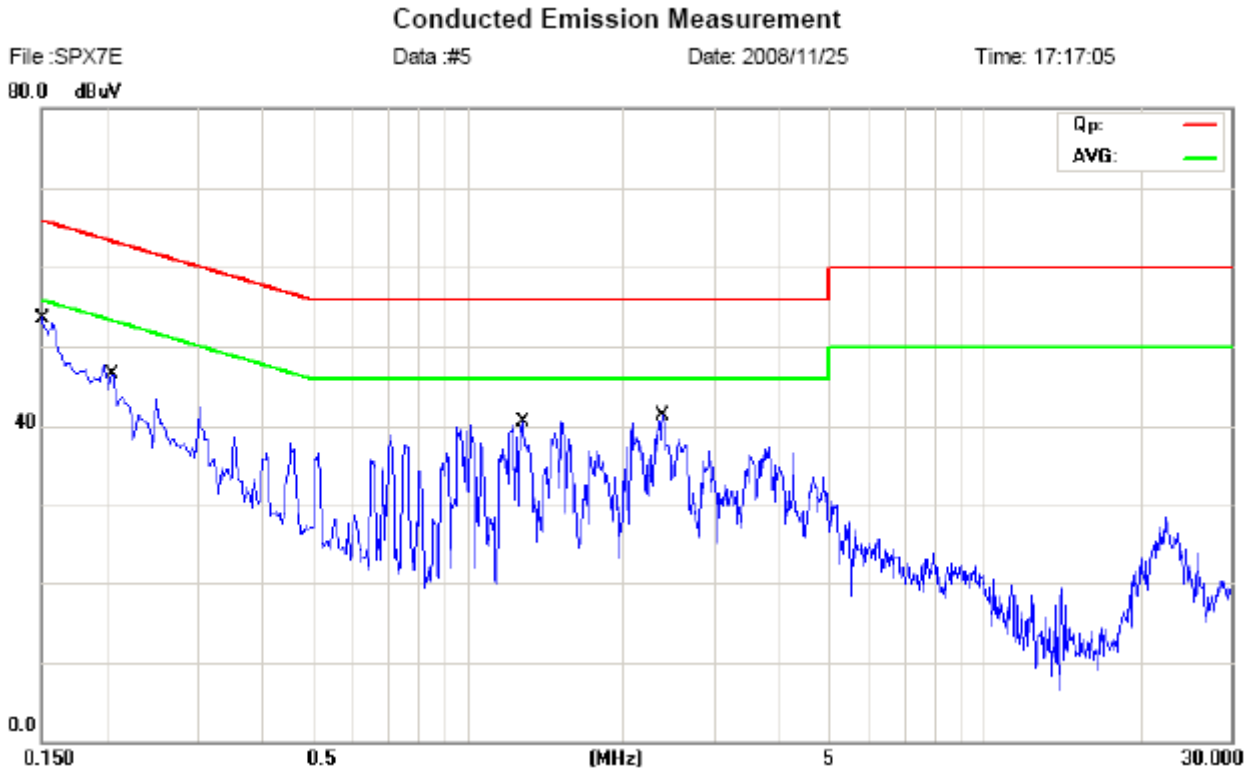
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read CF Card
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1507	49.30	32.70	--	--	65.86	55.86
0.2053	42.06	36.36	--	--	63.39	53.39
1.2863	34.11	33.91	--	--	56.00	46.00
2.3911	34.36	27.16	--	--	56.00	46.00

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Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC

Working Voltage: 120V~ 60Hz

Results: Pass

Please refer to following diagram for individual

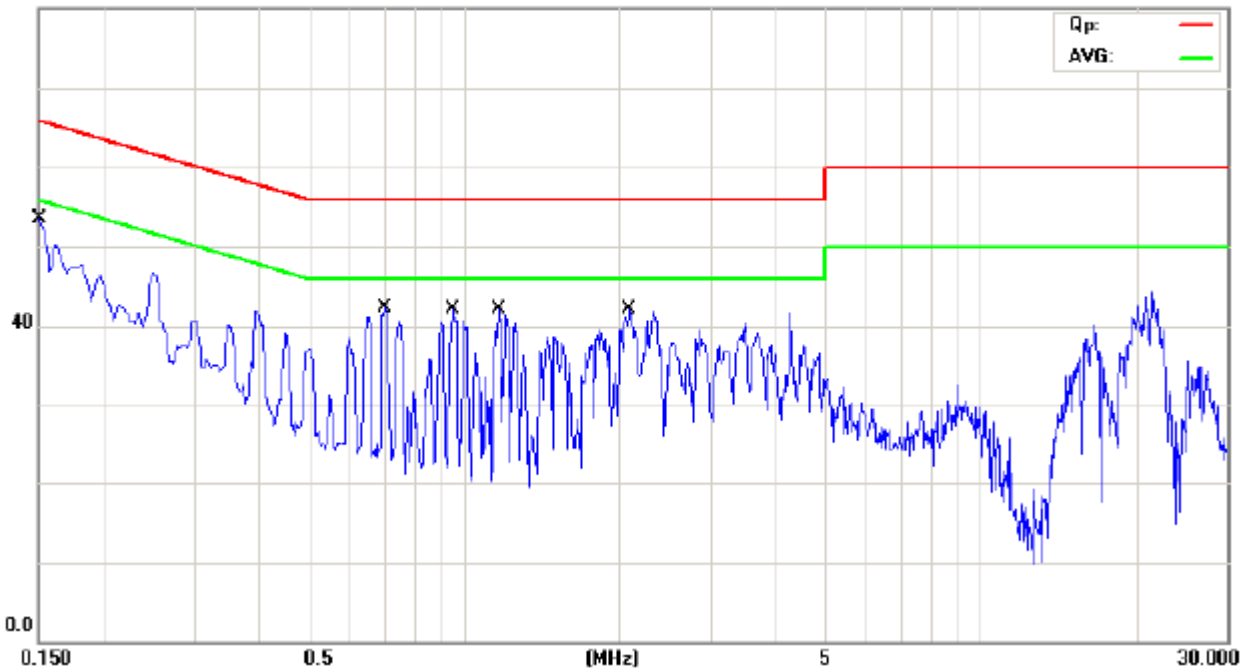
Conducted Emission Measurement

File :SPX7E
 00.0 dB μ V

Data :#7

Date: 2008/11/25

Time: 17:29:41



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1508	--	--	51.10	39.10	65.96	55.96
0.7004	--	--	38.28	26.08	56.00	46.00
0.9567			38.52	26.05	56.00	46.00
1.1724			33.97	30.47	56.00	46.00
2.0941	--	--	35.44	34.94	56.00	46.00

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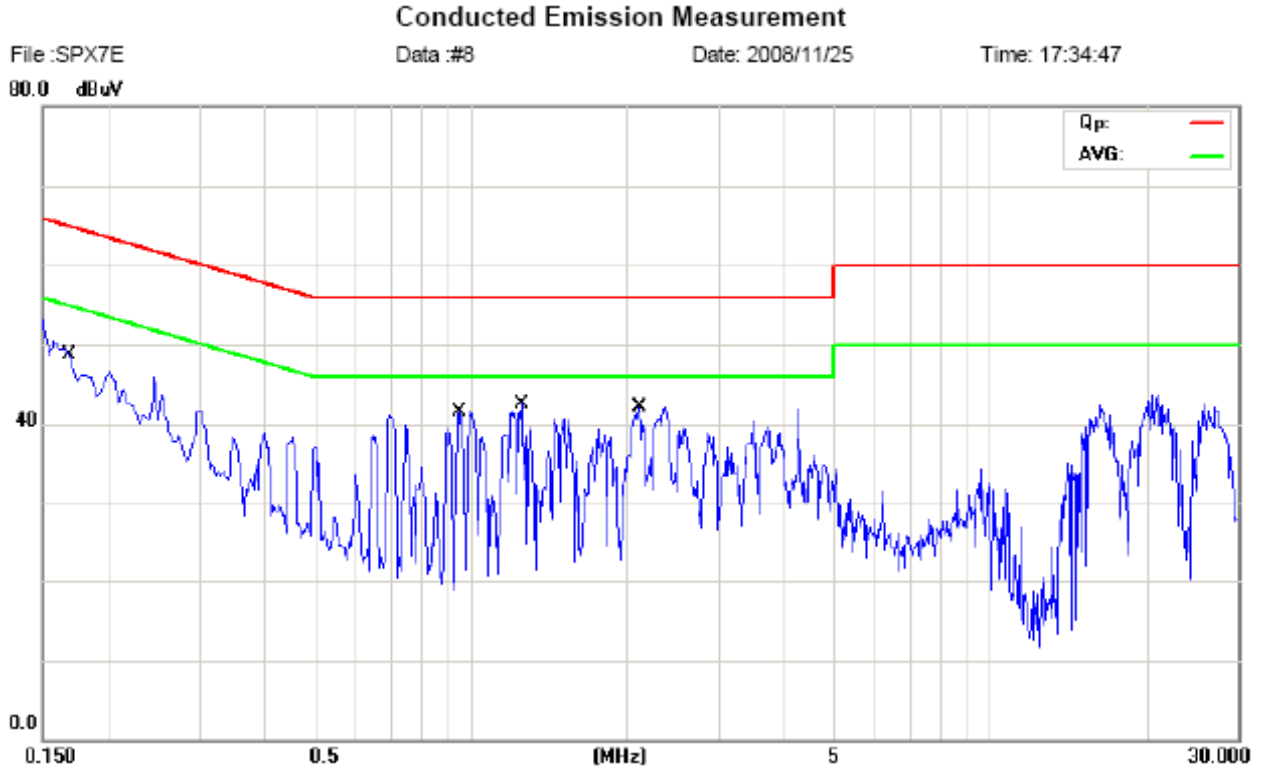
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Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Connected to PC
 Working Voltage: 120V~ 60Hz
Results: Pass

Please refer to following diagram for individual



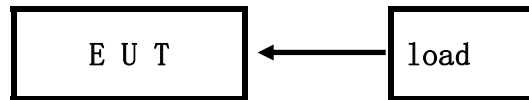
Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.1696	42.32	31.02	--	--	64.98	54.98
0.9520	37.75	34.45	--	--	56.00	46.00
1.2531	37.80	33.60	--	--	56.00	46.00
2.1067	35.84	28.64	--	--	56.00	46.00

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5.0 Radiated Disturbance Test

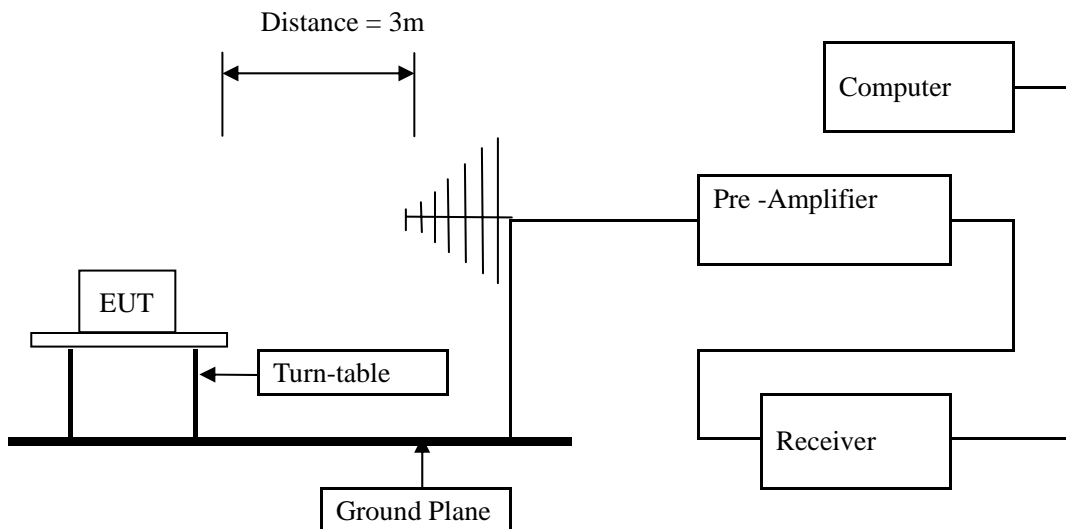
5.1 Schematics of the test



5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak 0values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

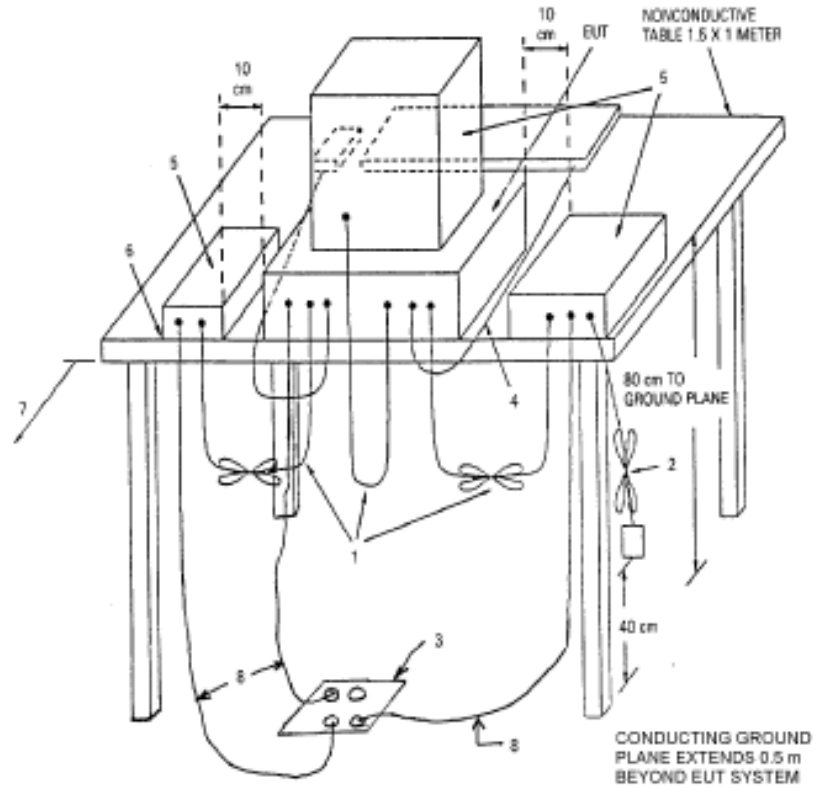
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. All readings are above 1GHz, peak values with a resolution bandwidth of 1MHz. Measurements were made at 3 meters.

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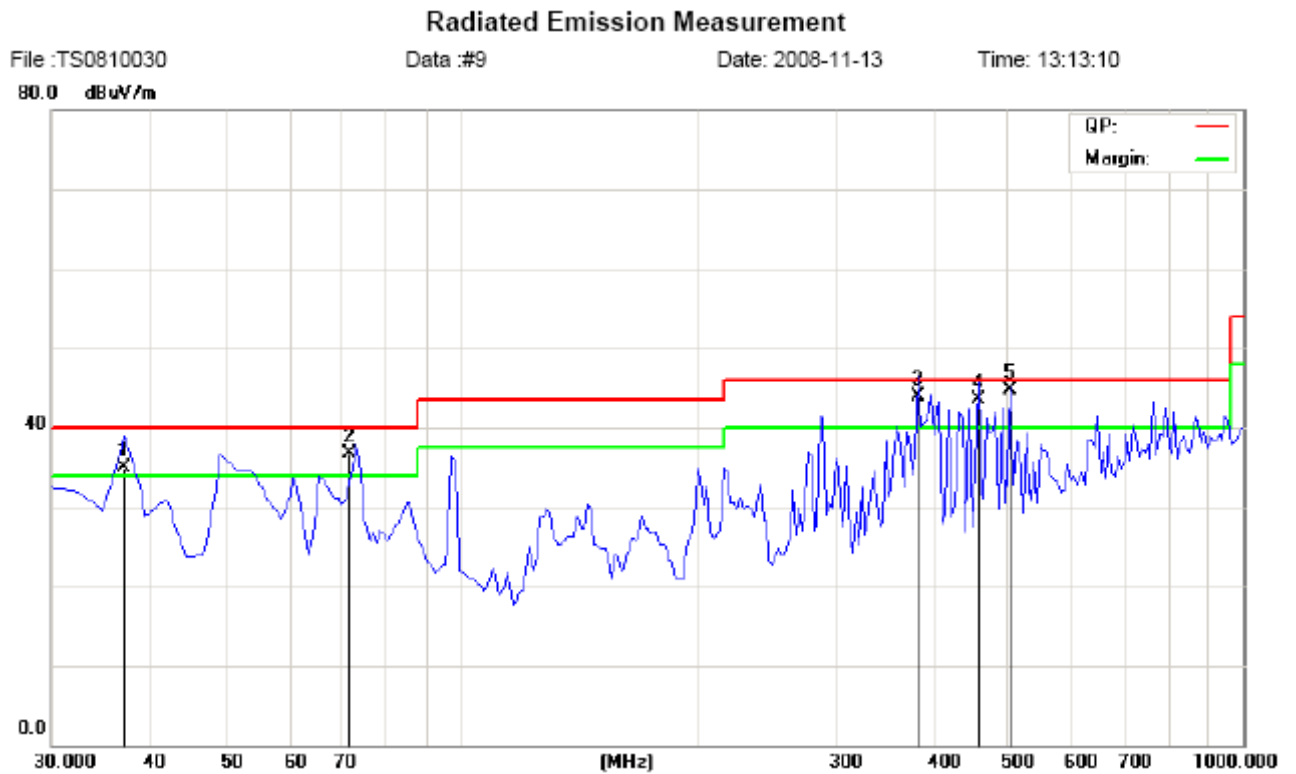
A: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Connected to PC

Level: Class B

Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
37.021	34.94	H	40.00
72.018	36.77	H	40.00
384.068	43.81	H	46.00
456.080	43.57	H	46.00
504.086	44.61	H	46.00

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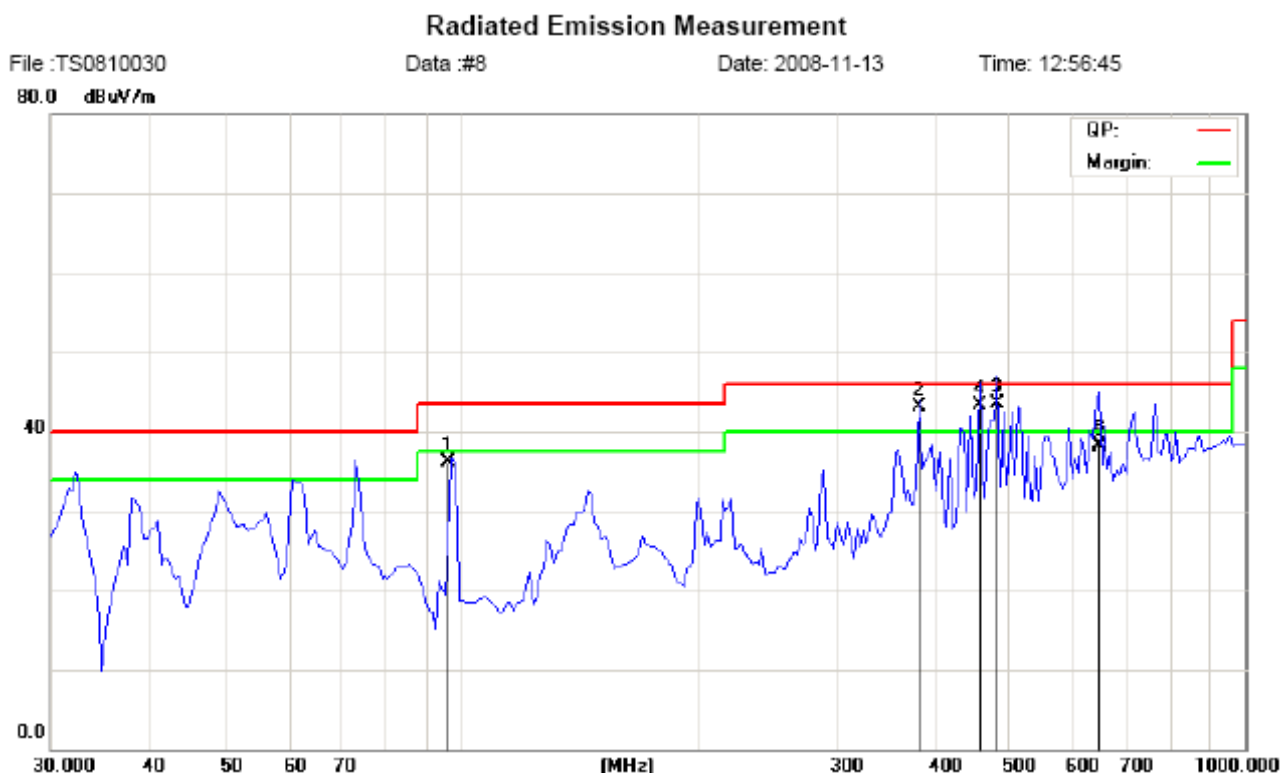
B: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Connected to PC

Level: Class B

Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
96.028	36.14	V	43.50
384.075	43.10	V	46.00
480.083	43.50	V	46.00
456.095	43.29	V	46.00
649.215	38.23	V	46.00

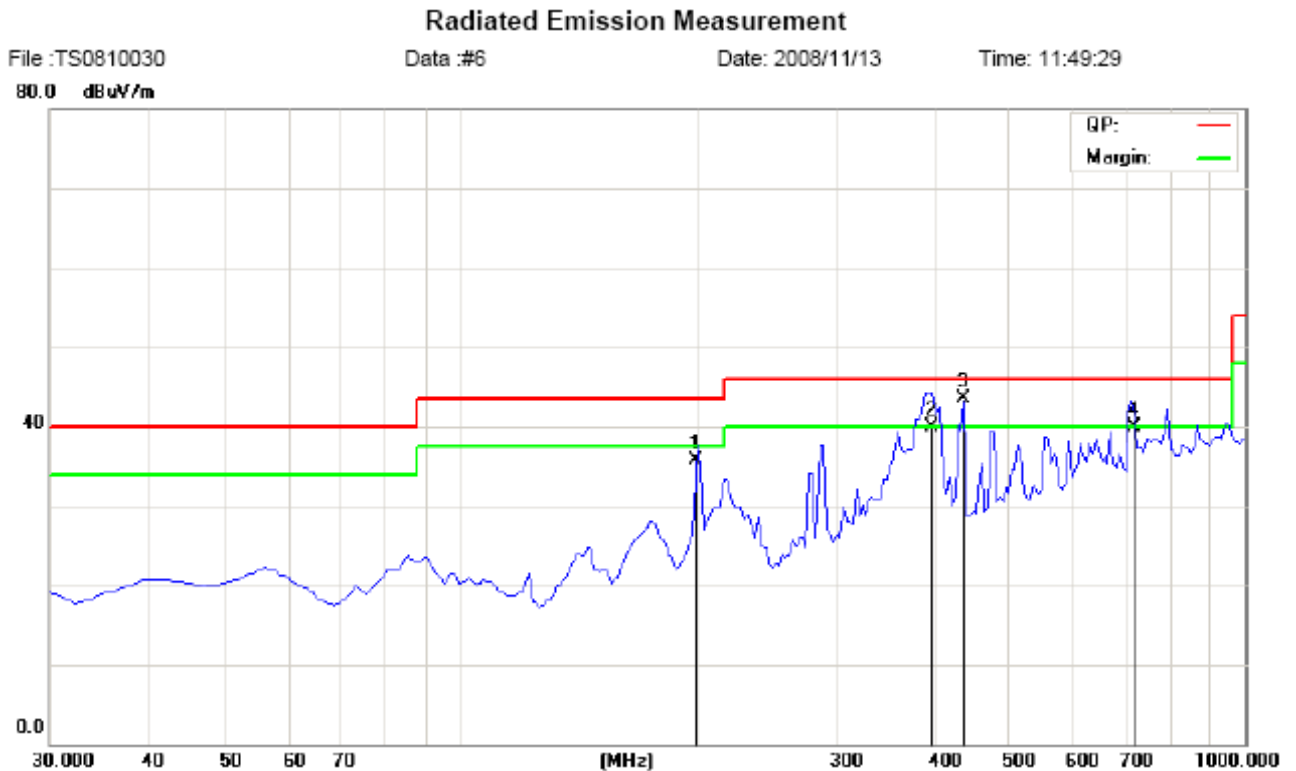
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C: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Reading SD Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
198.509	35.70	H	43.50
398.094	39.84	H	46.00
436.746	43.49	H	46.00
717.018	39.91	H	46.00

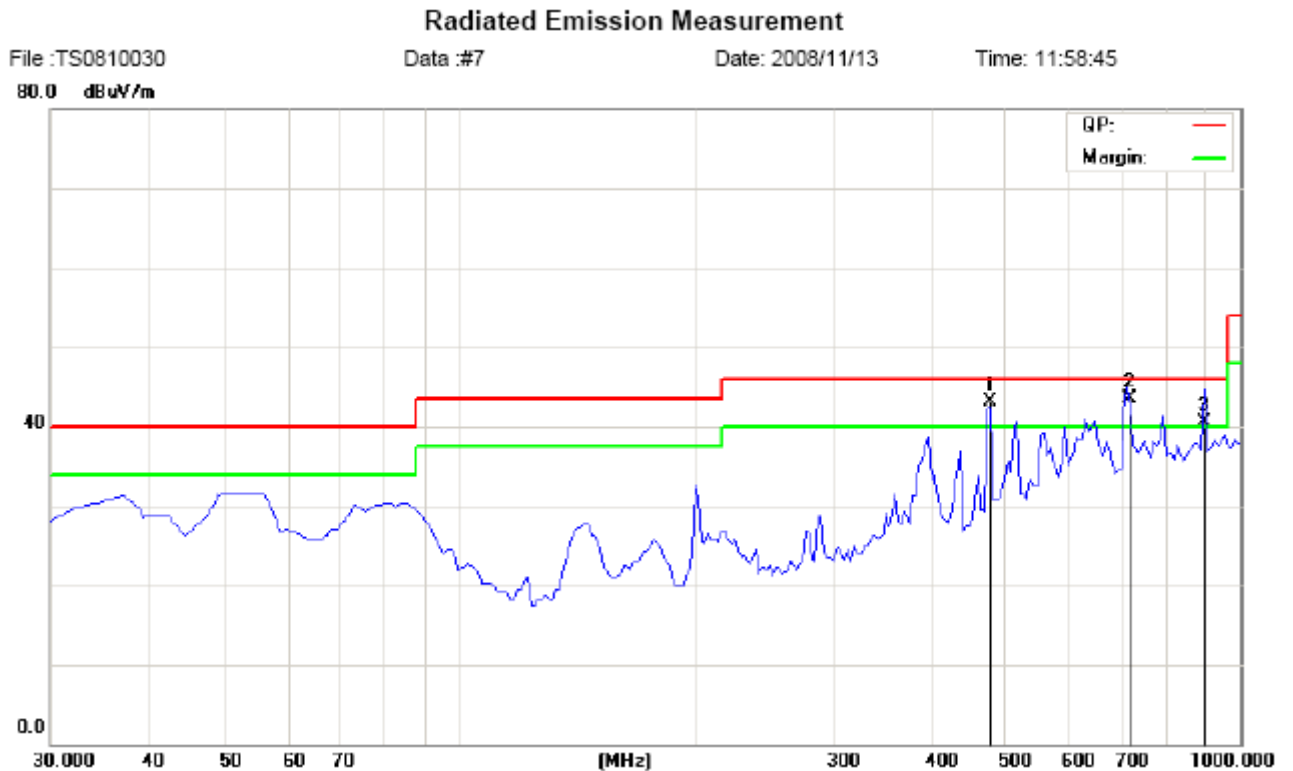
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D: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Reading SD Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
476.223	43.05	V	46.00
717.292	43.51	V	46.00
895.106	40.42	V	46.00

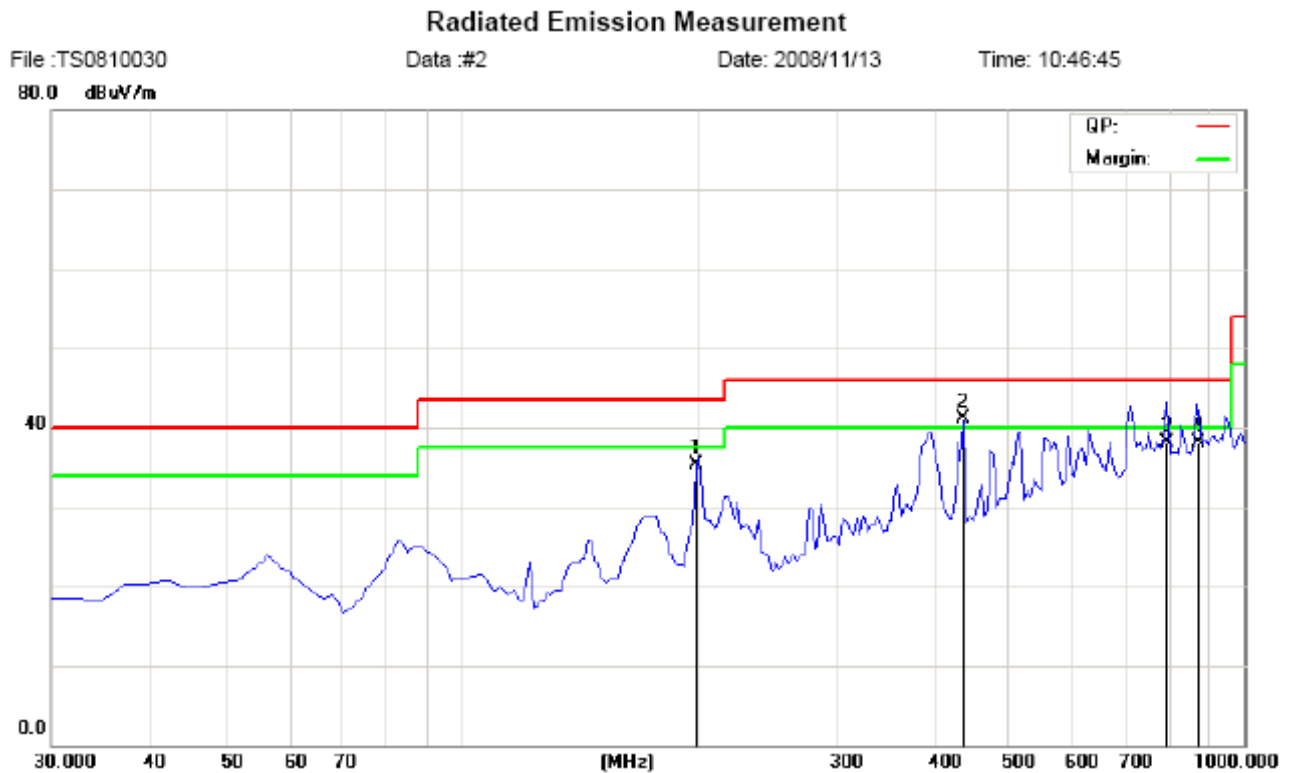
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E: Radiated Disturbance In Horizontal (30MHz---1000MHz)

EUT set Condition: Reading USB
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
198.512	35.33	H	43.50
436.458	41.09	H	46.00
794.592	38.16	H	46.00
872.940	38.17	H	46.00

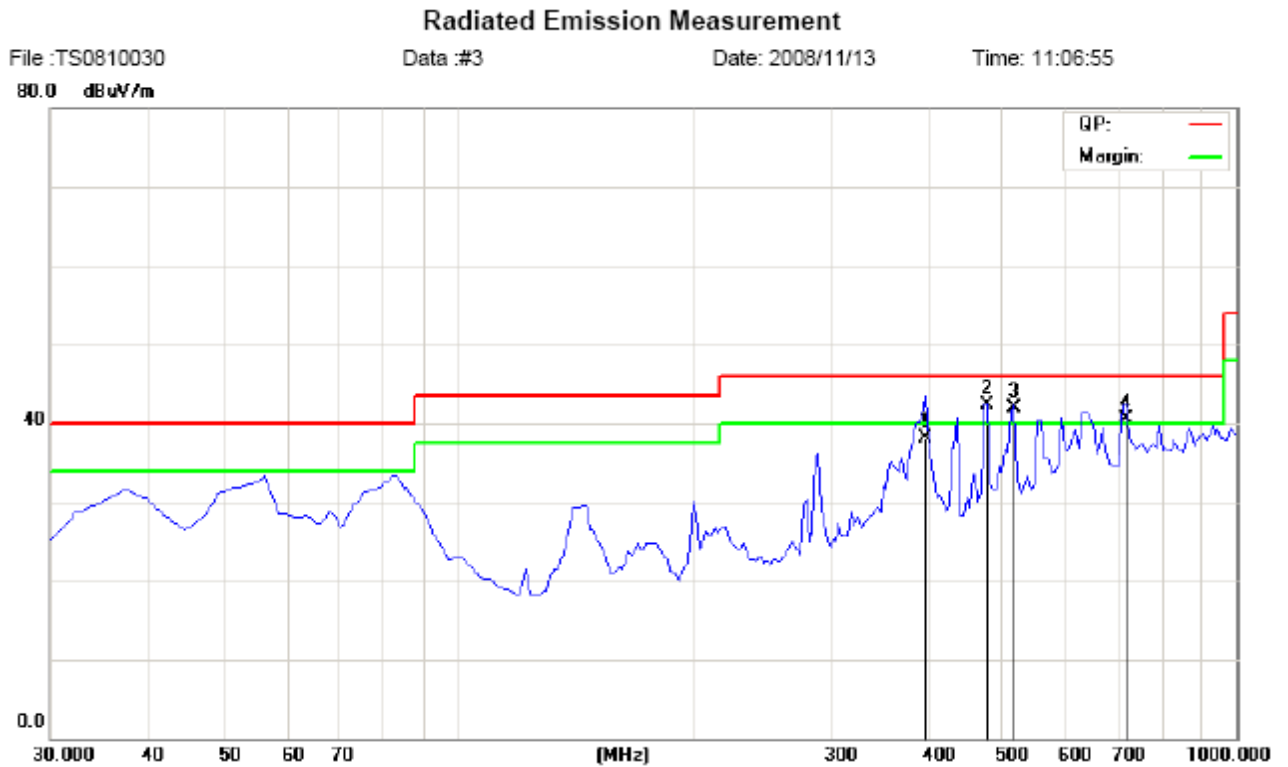
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F: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Reading USB
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
396.95	38.03	V	46.00
476.238	42.29	V	46.00
515.994	41.83	V	46.00
717.061	40.60	V	46.00

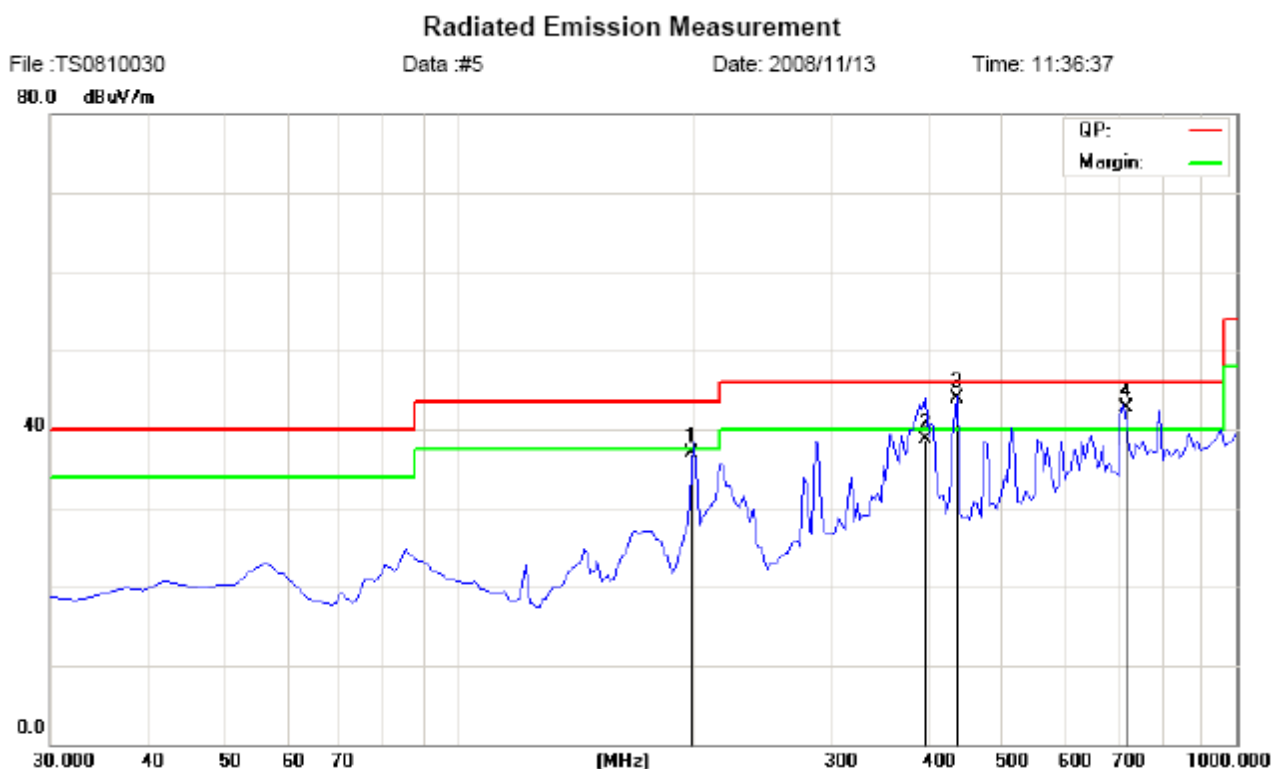
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G: Radiated Disturbance In Horizontal (30MHz----1000MHz)

EUT set Condition: Reading CF Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
198.517	37.00	H	43.50
398.087	38.66	H	46.00
436.753	44.00	H	46.00
717.009	42.64	H	46.00

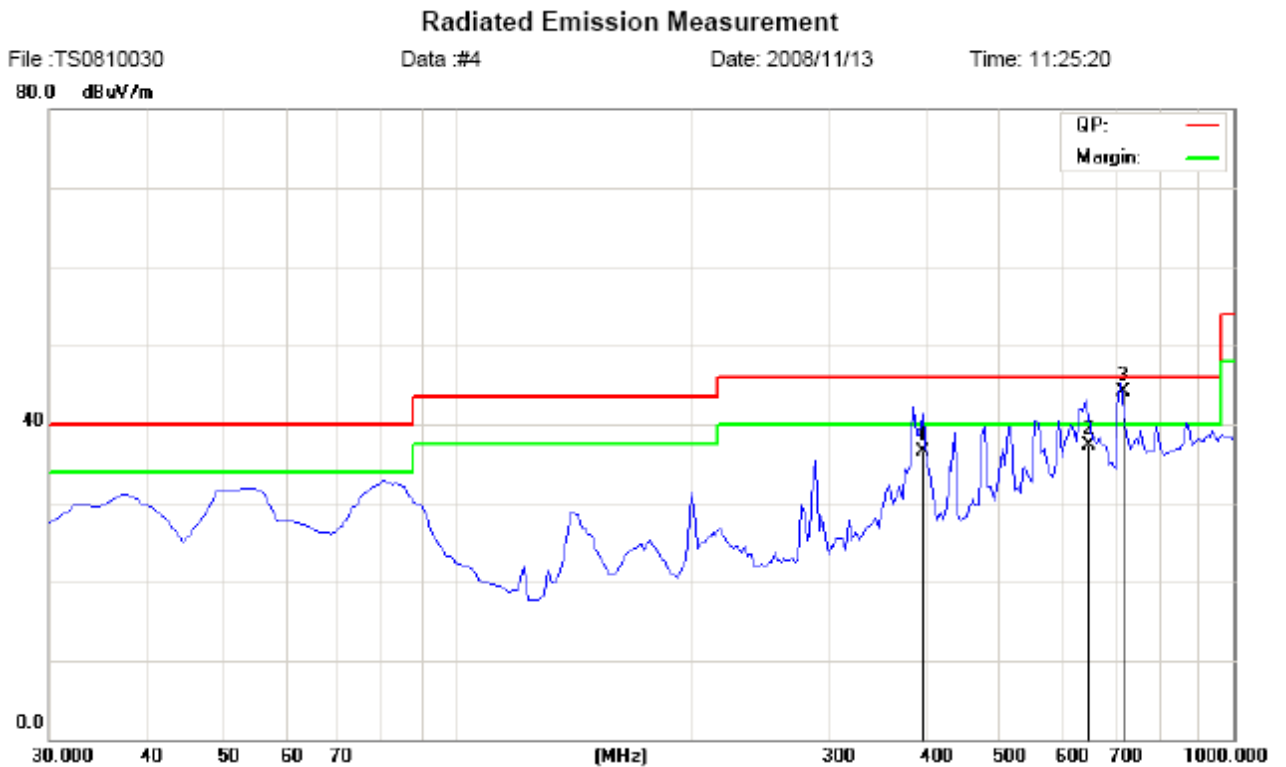
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H: Radiated Disturbance In Vertical (30MHz---1000MHz)

EUT set Condition: Reading CF Card
 Level: Class B
 Results: PASS

Please refer to following diagram for individual
 Picture of the test



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
396.994	36.85	V	40.00
645.547	37.22	V	46.00
717.019	44.18	V	46.00

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6.0 FCC ID Label

FCC ID: V37-7INCHDPF

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



FCC ID Label Location



7.0 **Photo of testing**

7.1 Conducted test View—



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7.2 Radiated emission test view--



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7.3 Photo for the EUT

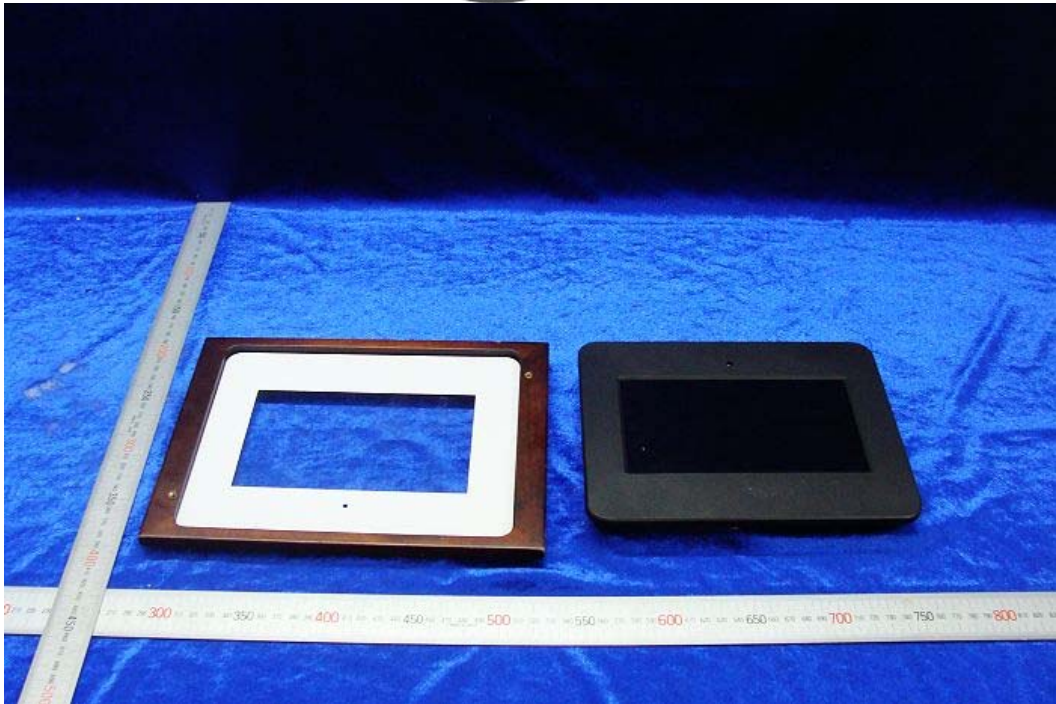
Front View



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Back View



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Side View



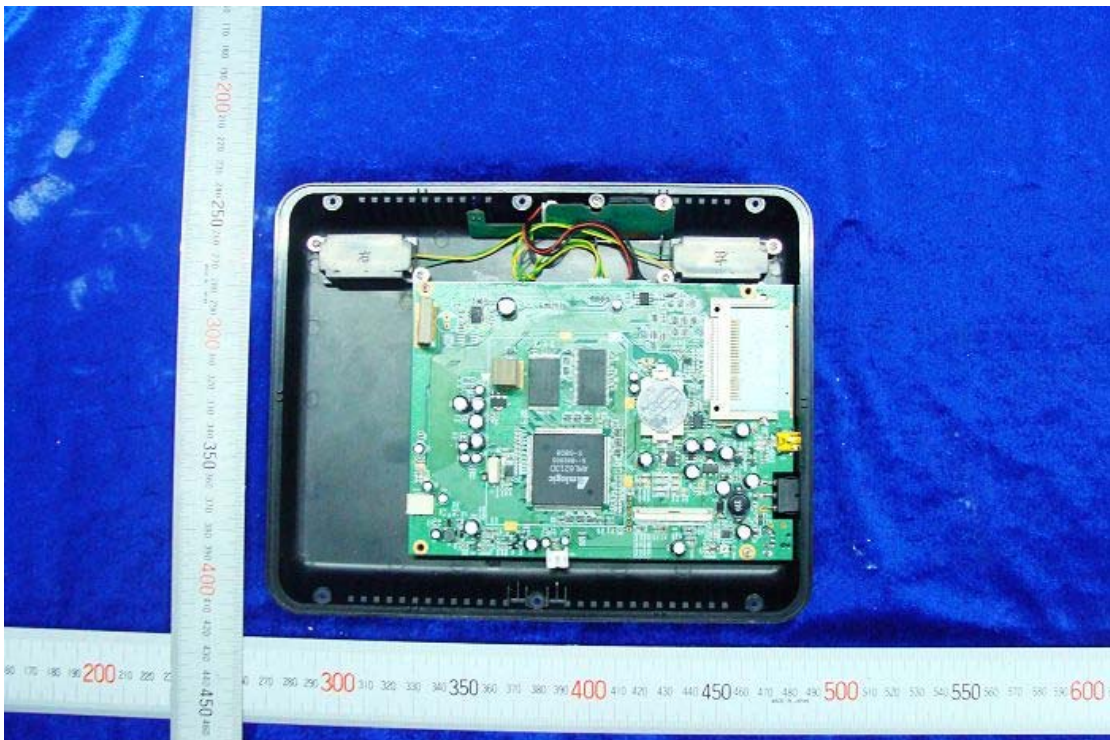
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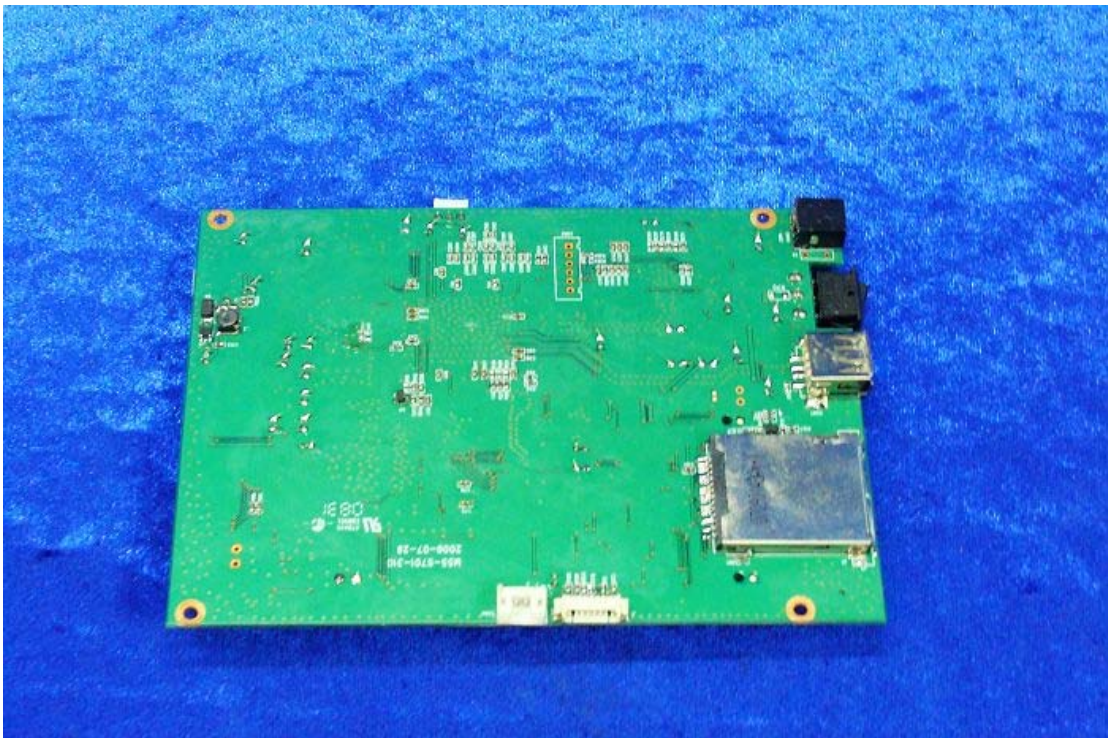
Inside View1



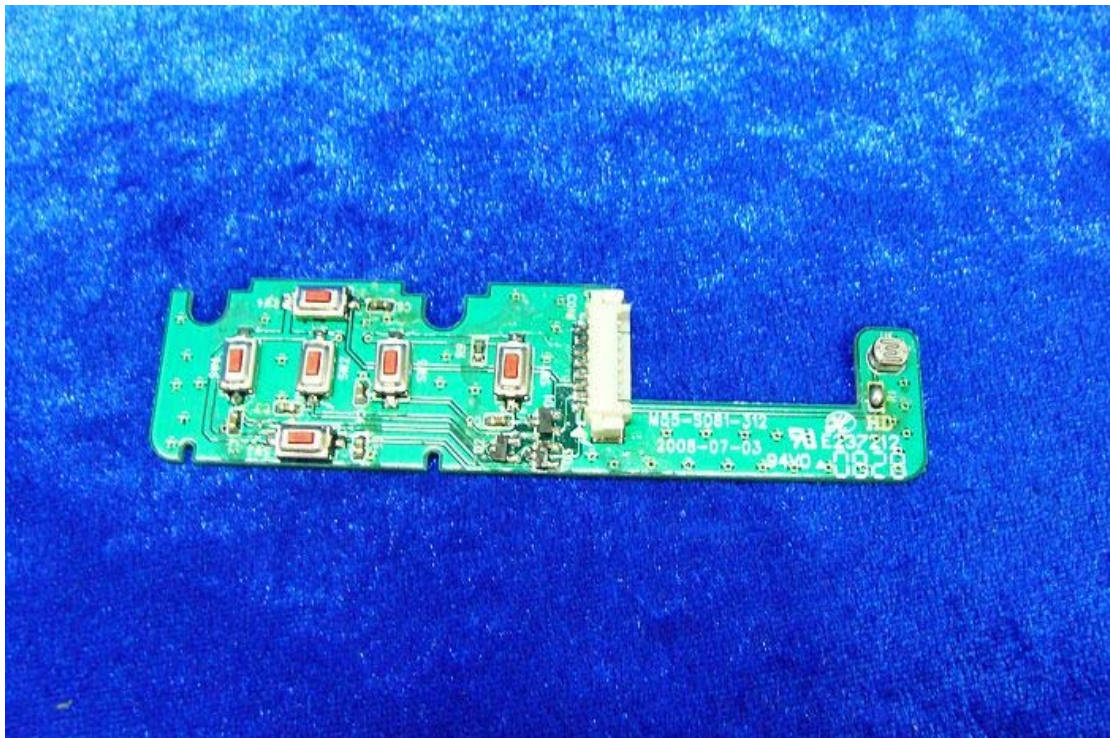
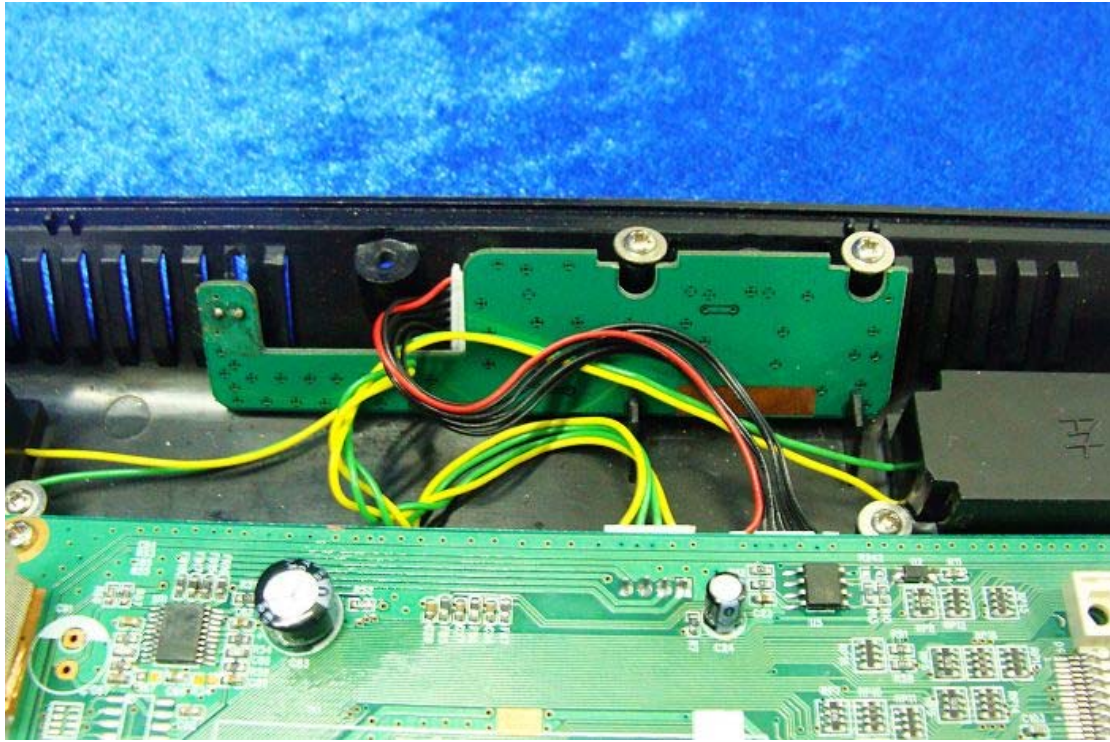
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